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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,331	07/29/2003	Atsushi Nishio	02410337AA	6085
30743 7	7590 02/20/2004		EXAMINER	
WHITHAM, CURTIS & CHRISTOFFERSON, P.C.			GILMAN, ALEXANDER	
11491 SUNSE SUITE 340	T HILLS ROAD		ART UNIT	PAPER NUMBER
	ESTON, VA 20190		2833	

DATE MAILED: 02/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			<i>IM</i>
	Application No.	Applicant(s)	
	10/628,331	NISHIO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alexander Gilman	2833	
Th MAILING DATE of this communica	ation appears on the cover sheet wi	th the correspond nc add	ress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communi. - If the period for reply specified above is less than thirty (30) of If NO period for reply specified above, the maximum statut. - Failure to reply within the set or extended period for reply with Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a recication. days, a reply within the statutory minimum of thirty ory period will apply and will expire SIX (6) MON I, by statute, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this com ANDONED (35 U.S.C. § 133).	nmunication.
Status			
1) Responsive to communication(s) filed	on <i>29 July 200</i> 3.		
,)⊠ This action is non-final.		
3) Since this application is in condition for	r allowance except for formal matte	ers, prosecution as to the i	merits is
closed in accordance with the practice	under Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-6</u> is/are pending in the appl	ication.		
4a) Of the above claim(s) is/are			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	on and/or election requirement.		
Application Papers			
9) ☐ The specification is objected to by the E	Examiner.		
10) The drawing(s) filed on is/are: a	ı)□ accepted or b)□ objected to I	by the Examiner.	
Applicant may not request that any objection	on to the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including th	e correction is required if the drawing(s) is objected to. See 37 CFF	₹ 1.121(d).
11)☐ The oath or declaration is objected to b	y the Examiner. Note the attached	Office Action or form PTC)-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for a)⊠ All b)□ Some * c)□ None of:	r foreign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1.⊠ Certified copies of the priority do	ocuments have been received.		
2. Certified copies of the priority do		pplication No	
3. Copies of the certified copies of		•	tage
application from the Internationa	l Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action t	for a list of the certified copies not	received.	
Attachment(s)			
1) 🔀 Notice of References Cited (PTO-892)		ummary (PTO-413)	
2)		s)/Mail Date Iformal Patent Application (PTO-	152)
Paper No(s)/Mail Date	6) Other:		•

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1, 3, 5, are rejected under 35 U.S.C. 102(e) as being anticipated by Howell.

 With regard to claim 1, Howell (US 6,328,574) discloses (Fig. 7) a connector, comprising:
 a connector body (10), having an inner side face defining a chamber which accommodates the module body, the chamber formed with an opening from which the module body is inserted;
 a first, conductive terminal (20a), provided on the inner side face such that a conductive member formed on an outer periphery of the modttle body is brought into contact with the first terminal in a case where the module body is completely accommodated in the chamber;
 and a second, grounding terminal, (20b) provided on the inner side face and operable to be brought into contact with the conductive member of the module body,
 wherein the second terminal is provided at a portion closer to the opening than the first terminal,.
- 2. Claims 1, 3, 4, are rejected under 35 U.S.C. 102(b) as being anticipated by Perkins et al. With regard to claims 1 and 3, Perkins et al(US 5,398,154) disclose (Fig. 2) a connector, comprising:

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a connector body (14), having an inner side face defining a chamber which accommodates the module body, the chamber formed with an opening from which the module body is inserted; a first, conductive terminal (34,36), provided on the inner side face such that a conductive member formed on an outer periphery of the module body is brought into contact with the first terminal in a case where the module body is completely accommodated in the chamber; and a second, grounding terminal, (70,72) provided on the inner side face and operable to be brought into contact with the conductive member of the module body, wherein the second terminal is provided at a portion closer to the opening than the first terminal With regard to claim 4. Perkins et al discloses the second terminal is formed with a protrusion which engages with the module body in a case where the module body is plenarily accommodated in the chamber.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Howell et al in view of Grabbe et al.

Howell et al disclose all of the limitations except for the chamber having a rectangular cross section when viewed from the opening; and the first terminal and the second terminal being provided on each of four inner side faces designing the chamber.

Grabbe et al disclose (Fig. 5) the chamber having a rectangular cross section when viewed from the opening; and the terminals being provided on each of four inner side faces designing the chamber. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to arrange the Howell et al socket as the chamber having a rectangular cross section when viewed

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from the opening and the terminals being provided on each of four inner side faces designing the chamber, as taught by Grabbe et al, to utilize the Howell et al connector with modules having four side leads.

2. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Howell et al in view of the admitted prior art.

Howell et al disclose all of the limitations except for using the connector with a camera module The admitted prior art discloses (Fig. 4, 5) using the connector with a camera module Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to arrange the Howell et al socket for using the connector with a camera module, as taught by the admitted prior art, to extend the applicability of the Howell et al connector.

Any inquiry concerning this communication should be directed to Alexander Gilman at telephone number (571) 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

1/31/04

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01/30/2004

ALEXANDER GILMAN PRIMARY EXAMINER